## IN THE CLAIMS:

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 (Currently Amended) A process for the laser beam machining of components, the process comprising:

providing a remote laser head;

guiding the laser head with a manipulator with a multiaxial manipulator hand, said remote laser head being arranged externally on said manipulator hand, said laser head emitting a laser beam;

during welding or cutting, guiding the emitted laser beam along a welding or cutting path on the component [[(14)]] by orientation modifications and with a variable irradiation angle  $\beta$ , where the changes in the orientation of the laser beam are generated only by pivoting motions of the manipulator hand about at least one of the hand axes, wherein one or more of a laser output and a velocity of welding or cutting is adjusted as a function of the irradiation angles  $\beta$  of the laser beam.

- (Previously Presented) A process in accordance with claim 1, wherein the laser beam emitted to the component is not aligned with a last hand axis.
- (Previously Presented) A process in accordance with claim 2, wherein the manipulator is at rest during machining, welding or cutting with three other axes.
  - 4. (Previously Presented) A process in accordance with claim 1, wherein the focus

of the laser beam is moved during welding or cutting on a shell path about an intersection of several of the hand axes.

- (Previously Presented) A process in accordance with claim 1, wherein the focus
  of the laser beam is adjusted in the direction of the beam during welding or cutting.
  - 6. (Canceled)
- (Previously Presented) A process in accordance with claim 6, wherein the remote laser head is guided by means of an extension arm at a spaced location from the manipulator hand.
- 8. (Previously Presented) A process in accordance with claim 2, wherein the remote laser head is held with an orientation in which the emitted laser beam is directed at right angles to the last hand axis.
- 9. (Previously Presented) A process in accordance with claim 1, wherein the remote laser head is attached directly to the manipulator hand such that the emitted laser beam intersects the intersection of the several of the hand axes.
  - 10. (Currently Amended) A process in accordance with claim 1, wherein a remote laser

head with a rigid-angle fixed-angle focusing optical system is used.

(Currently Amended) A process in accordance with claim 1, wherein [[a]] said remote laser head has [[with]] a fixed focal length of preferably 500 mm to 1,500 mm is used.

12 - 13. (Canceled)

- 14. (Previously Presented) A process in accordance with claim 1, wherein a remote laser head with an optical system adjustable in the manner of a zoom lens is used.
- 15. (Currently Amended) A process for the laser beam welding of vehicle body parts, the process comprising:

providing a manipulator with robot basic axes and a manipulator hand having hand axes; providing a laser source;

providing a remote laser head, said remote laser head being connected to said manipulator hand such that said remote laser head is located at a spaced location from said manipulator hand:

providing a fiber optic cable;

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connecting said laser source to said remote laser head via said fiber optic cable;

guiding the laser head with the manipulator hand;

during welding guiding the motion of the hand to move the laser beam along a welding

path on the vehicle body part by orientation modifications and with a variable irradiation angle  $\beta$ , where  $\underline{in}$  the changes in the orientation of the laser beam are generated only by pivoting motions of the manipulator hand about at least one of the hand axes;

changing at least one of laser power and velocity of welding as function of said variable irradiation angle  $\beta$ .

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- 16. (Previously Presented) A process in accordance with claim 15, wherein the laser beam emitted to the part is not aligned with a last hand axis of the hand axes.
- 17. (Previously Presented) A process in accordance with claim 16, wherein the manipulator is at rest during welding with there being no movement about the robot basic axes during welding.
- 18. (Previously Presented) A process in accordance with claim 15, wherein the focus of the laser beam is moved during welding on a shell path about an intersection of several of the hand axes.
- 19. (Previously Presented) A process in accordance with claim 15, wherein the focus of the laser beam is adjusted in the direction of the beam during welding.
  - 20. (Currently Amended) A process in accordance with claim 14, wherein the laser

beam is emitted from a remote laser head arranged externally on the manipulator hand and further comprising guiding the remote laser head using an extension arm at a spaced location from the manipulator hand.

21. (New) A device for the laser beam welding of vehicle body parts, the device comprising:

a manipulator with robot basic axes and a manipulator hand having hand axes;

a remote laser head arranged externally to said manipulator hand, said remote laser head emitting a laser beam;

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a control means for pivoting said manipulator hand about at least one of said hand axes such that the laser beam is guided along a welding path on the vehicle body with a variable irradiation angle  $\beta$ .

- 22. (New) A device in accordance with claim 21, wherein one or more of laser power and a velocity of welding is adjusted as a function of the irradiation angle  $\beta$  of the laser beam via said control means.
  - 23. (New) A device in accordance with claim 21, further comprising:
  - a laser beam source arranged in a position external to said manipulator; and
- a fiber optic cable, said laser head being connected to said laser beam source via said fiber optic cable.

 $24. \ \ (New) \ A \ device in accordance with claim 21, wherein said remote laser head has$  a fixed focal length of 500 mm to 1,500 mm.